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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/936,531	09/11/2001	Yvan Strauven	U.MINIERE-03	4239
42253 MISHRILAL J	7590 01/19/2007	EXAMINER		
11620 MASTERS RUN ELLICOTT CITY, MD 21042			CREPEAU, JONATHAN	
			ART UNIT	PAPER NUMBER
			1745	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	01/19/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		09/936,531	STRAUVEN ET AL.			
		Examiner	Art Unit			
		Jonathan S. Crepeau	1745			
	of this communication app	pears on the cover sheet with the	correspondence address			
Period for Reply		· · · · · · · · · · · · · · · · · · ·				
WHICHEVER IS LONGER - Extensions of time may be available after SIX (6) MONTHS from the ma - If NO period for reply is specified at - Failure to reply within the set or extensions.	, FROM THE MAILING Date under the provisions of 37 CFR 1.1 illing date of this communication. Dove, the maximum statutory period vended period for reply will, by statuteer than three months after the mailing	Y IS SET TO EXPIRE 3 MONTH ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON grade of this communication, even if timely file	DN. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).			
Status	•					
1) Responsive to comm	nunication(s) filed on 14 N	ovember 2006.				
2a) ☐ This action is FINAL		action is non-final.				
3) Since this application	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance	with the practice under E	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.			
Disposition of Claims						
4)⊠ Claim(s) 1-17 is/are	4)⊠ Claim(s) <u>1-17</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are	e allowed.					
6)⊠ Claim(s) <u>1-17</u> is/are	ejected.		,			
7) Claim(s) is/ard						
8) Claim(s) are s	ubject to restriction and/o	r election requirement.				
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
-		tion is required if the drawing(s) is o				
11) The oath or declaration	on is objected to by the Ex	caminer. Note the attached Office	e Action or form PTO-152.			
Priority under 35 U.S.C. § 119	3 •					
12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)☐ All b)☐ Some * c)☐ None of:						
1.☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
		·	•			
Attachment(s)						
1) Notice of References Cited (PT		4) Interview Summa Paper No(s)/Mail				
2) Notice of Draftsperson's Patent3) Information Disclosure Stateme		5) Notice of Informa				
Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

Response to Amendment

1. This Office action addresses claims 1-17. Applicant's arguments filed on November 14, 2006 are persuasive and the rejection over the JP '379 reference is withdrawn. However, claims 1-17 are newly rejected under 35 USC 103 herein. As such, this action is non-final.

Claim Rejections - 35 USC § 103

2. Claims 1-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 94/19502 in view of Suzuki (U.S. Patent 5,917,113).

Regarding claim 5, WO '502 is directed to an alkaline battery comprising an anode, cathode, and electrolyte (see claim 23 of the reference). Regarding claim 1, the anode comprises a zinc alloy having a composition which anticipates each of the claimed compositions (a), (b), and (c). For example, the alloy disclosed at page 5, line 30, which contains 70 ppm (0.007 wt%) Al and 250 ppm (0.025 wt%) Bi, anticipates alloy (c) of instant claim 1. The alloy disclosed at page 6, line 12 (0.007 wt% Al, 0.025 wt% In) anticipates alloy (a) of instant claim 1. The alloy disclosed at page 6, line 21 (0.003 wt% Al, 0.025 wt% In, 0.025 wt% Bi) anticipates alloy (b) of instant claims 1 and 2. Regarding claim 6, the powder comprises metal cemented out of the electrolyte (see claim 24 of the reference). Regarding claim 1, the powder can be made by a centrifugal atomization process (see page 3, line 30).

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WO '502 does not expressly teach that the centrifugal atomization process is carried out in an atmosphere with a relatively low (i.e., <4vol%) oxygen content, as recited in claims 1, 3, 4, 7-11 and 15-17.

Suzuki is directed to a process for producing spherical metal particles. The process involves centrifugally atomizing molten metal in an atmosphere containing 3-600 ppm oxygen (see abstract).

Therefore, the invention as a whole would have been obvious to one of ordinary skill in the art at the time the invention was made because the disclosure of Suzuki would motivate the artisan to conduct the centrifugal atomization of WO '502 in an atmosphere containing a relatively low (i.e., 3-600 ppm) amount of oxygen. In column 4, line 43, Suzuki teaches that "as has been discussed above in detail, the production process of the present invention permits mass-production of fluent, spherical metal particles having a smooth surface, in low cost and excellent in dispersibility in a dispersing medium." Accordingly, the artisan would be motivated to conduct the centrifugal atomization of WO '502 in an atmosphere containing a relatively low (i.e., 3-600 ppm) amount of oxygen. Although the parts per million unit of the Suzuki reference is determined on a mass basis (see abstract), this is still believed to render obvious the claimed volume percentages of oxygen content (less than 4% as recited in claim 1, or 0.2-3.5% as recited in claim 3).

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Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Crepeau whose telephone number is (571) 272-1299. The examiner can normally be reached Monday-Friday from 9:30 AM - 6:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan, can be reached at (571) 272-1292. The phone number for the organization where this application or proceeding is assigned is (571) 272-1700. Documents may be faxed to the central fax server at (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jonathan Crepeau Primary Examiner Art Unit 1745 January 11, 2007